

Please type a plus sign (+) inside this box →

PTO/SB/08A (08-00)

Approved for use through 10/31/2002. OMB 0651-0031

U.S. Patent and Trademark Office: U.S. DEPARTMENT OF COMMERCE

Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it contains a valid OMB control number.

Substitute for form 1449A/PTO

## **INFORMATION DISCLOSURE STATEMENT BY APPLICANT**

(use as many sheets as necessary)

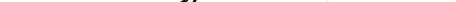
Sheet 1 of 1

| Complete if Known      |                 |
|------------------------|-----------------|
| Application Number     | 09/639,908      |
| Filing Date            | AUGUST 16, 2000 |
| First Named Inventor   | RAYMOND A. JOAO |
| Group Art Unit         | 2164            |
| Examiner Name          | P. KANOF        |
| Attorney Docket Number | RJ251           |

RECEIVED  
12/8/2001  
182105

## U.S. PATENT DOCUMENTS

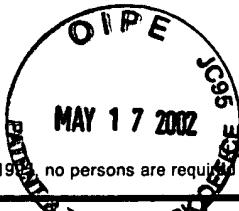
## FOREIGN PATENT DOCUMENTS

|                       |   |                    |           |
|-----------------------|---|--------------------|-----------|
| Examiner<br>Signature |  | Date<br>Considered | 2/10/2003 |
|-----------------------|---|--------------------|-----------|

**\*EXAMINER:** Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

<sup>1</sup> Unique citation designation number. <sup>2</sup> See attached Kinds of U.S. Patent Documents. <sup>3</sup> Enter Office that issued the document, by the two-letter code (WIPO Standard ST.3). <sup>4</sup> For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. <sup>5</sup> Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST. 16 if possible. <sup>6</sup> Applicant is to place a check mark here if English language Translation is attached.

**Burden Hour Statement:** This form is estimated to take 2.0 hours to complete. Time will vary depending upon the needs of the individual case. Any comments on the amount of time you are required to complete this form should be sent to the Chief Information Officer, U. S. Patent and Trademark Office, Washington, DC 20231. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Assistant Commissioner for Patents, Washington, DC 20231.



# 10

PTO/SB/08A (10-01)

Approved for use through 10/31/2002. OMB 0651-0031

Approved for use through 10/31/2002. GMB 0001-0001  
U.S. Patent and Trademark Office: U.S. DEPARTMENT OF COMMERCE

Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it contains a valid OMB control number.

**Substitute for form 1449A/PTO**

## **INFORMATION DISCLOSURE STATEMENT BY APPLICANT**

(use as many sheets as necessary)

Sheet 1 of 1

**Complete if Known**

|                        |                 |
|------------------------|-----------------|
| Application Number     | 09/639,908      |
| Filing Date            | AUGUST 16, 2000 |
| First Named Inventor   | RAYMOND A. JOAO |
| Art Unit               | 2164            |
| Examiner Name          | J. BERGIN       |
| Attorney Docket Number | RJ251           |

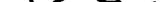
## U.S. PATENT DOCUMENTS

RECEIVED  
MAY 21 2002  
Technology Center 2100

## FOREIGN PATENT DOCUMENTS

RECEIVED  
MAY 23 2002  
GROUP 360

Examiner  
Signature



Date Considered

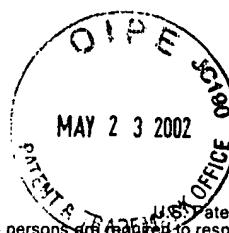
7/10/2003

\*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

<sup>1</sup> Applicant's unique citation designation number (optional). <sup>2</sup> See Kinds Codes of USPTO Patent Documents at [www.uspto.gov](http://www.uspto.gov) or MPEP 901.04. <sup>3</sup> Enter Office that issued the document, by the two-letter code (WIPO Standard ST.3). <sup>4</sup> For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. <sup>5</sup> Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST. 16 if possible. <sup>6</sup> Applicant is to place a check mark here if English language Translation is attached.

English language translation is attached.

**Burden Hour Statement:** This form is estimated to take 2.0 hours to complete. Time will vary depending upon the needs of the individual case. Any comments on the amount of time you are required to complete this form should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, Washington, DC 20231. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Assistant Commissioner for Patents, Washington, DC 20231.



**COPY OF PAPERS  
ORIGINALLY FILED**

PTO/SB/08A (10-01)

Approved for use through 10/31/2002. OMB 0651-0031  
Trademark Office: U.S. DEPARTMENT OF COMMERCE

Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it contains a valid OMB control number.

|  |   |                        |                 |
|--|---|------------------------|-----------------|
| Substitute for form 1449A/PTO  |   | Complete if Known      |                 |
| <b>INFORMATION DISCLOSURE<br/>STATEMENT BY APPLICANT</b><br><i>(use as many sheets as necessary)</i> |   | Application Number     | 09/639,908      |
|  |   | Filing Date            | AUGUST 16, 2000 |
|  |   | First Named Inventor   | RAYMOND A. JOAO |
|  |   | Art Unit               | 2164            |
|  |   | Examiner Name          | J. BERGIN       |
| Sheet  | 1 | of                     | 1               |
|  |   | Attorney Docket Number | RJ251           |

RECEIVED

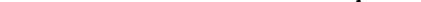
MAY 28 2002

Technology Center 2100

RECEIVED

JUN 07 2002

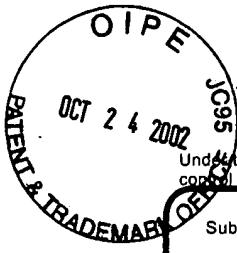
## GROUP 3600

|                    |   |                 |           |
|--------------------|---|-----------------|-----------|
| Examiner Signature |  | Date Considered | 2/10/2003 |
|--------------------|---|-----------------|-----------|

\*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

<sup>1</sup> Applicant's unique citation designation number (optional). <sup>2</sup> See Kinds Codes of USPTO Patent Documents at [www.uspto.gov](http://www.uspto.gov) or MPEP 901.04. <sup>3</sup> Enter Office that issued the document, by the two-letter code (WIPO Standard ST.3). <sup>4</sup> For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. <sup>5</sup> Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST. 16 if possible. <sup>6</sup> Applicant is to place a check mark here if English language Translation is attached.

**Burden Hour Statement:** This form is estimated to take 2.0 hours to complete. Time will vary depending upon the needs of the individual case. Any comments on the amount of time you are required to complete this form should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, Washington, DC 20231. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Assistant Commissioner for Patents, Washington, DC 20231.



#17

PTO/SB/08A (10-01)

Approved for use through 10/31/2002. OMB 0651-0031

U.S. Patent and Trademark Office: U.S. DEPARTMENT OF COMMERCE  
is not to be used to collect information unless it contains a valid OMB

Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it contains a valid OMB control number.

**Substitute for form 1449A/PTO**

## **INFORMATION DISCLOSURE STATEMENT BY APPLICANT**

*(use as many sheets as necessary)*

Sheet 1 of 1

***Complete if Known***

|                             |                 |
|-----------------------------|-----------------|
| <u>Application Number</u>   | 09/639,908      |
| <u>Filing Date</u>          | AUGUST 16, 2000 |
| <u>First Named Inventor</u> | RAYMOND A. JOAO |
| Art Unit                    | 3624            |
| Examiner Name               | J. BERGIN       |
| Attorney Docket Number      | RJ251           |

## U.S. PATENT DOCUMENTS

| Examiner Initials' | Cite No. <sup>1</sup> | Document Number                            | Publication Date<br>MM-DD-YYYY | Name of Patentee or<br>Applicant of Cited Document | Pages, Columns, Lines, Where<br>Relevant Passages or Relevant<br>Figures Appear |
|--------------------|-----------------------|--|--------------------------------|--|---|
|                    |                       | Number - Kind Code <sup>2</sup> (if known) |                                |  |   |
| JSB                |                       | us-5,920,848                               | 07-06-1999                     | SCHUTZER, ET                                       | AL.   |
| JSB                |                       | us-6,047,270                               | 04-04-2000                     | JOAO, ET AL.                                       |   |
| JSB                |                       | us-5,903,830                               | 05-11-1999                     | JOAO, ET AL.                                       |   |
| JSB                |                       | us-5,878,337                               | 03-02-1999                     | JOAO, ET AL.                                       |   |
| JSB                |                       | us-5,940,809                               | 08-17-1999                     | MUSMANNO, ET                                       | AL.   |
| JSB                |                       | us-5,270,922                               | 12-14-1993                     | HIGGINS  |   |
| JSB                |                       | us-4,774,663                               | 09-27-1988                     | MUSMANNO, ET                                       | AL.   |
| JSB                |                       | us-4,674,044                               | 06-16-1987                     | KALMUS, ET AL.                                     |   |
| JSB                |                       | us-5,890,140                               | 03-30-1999                     | CLARK, ET. AL                                      |   |
| JSB                |                       | us-5,710,889                               | 01-20-1998                     | CLARK, ET AL.                                      |   |
| JSB                |                       | us-5,703,949                               | 12-30-1997                     | ROSEN  |   |
| JSB                |                       | us-5,671,280                               | 09-23-1997                     | ROSEN  |   |
| JSB                |                       | us-5,245,535                               | 09-14-1993                     | WEISS, ET AL.                                      |   |
| JSB                |                       | us-4,751,640                               | 06-14-1988                     | LUCAS, ET AL.                                      |   |
| JSB                |                       | us-5,193,056                               | 03-09-1993                     | BOES   |   |
| JSB                |                       | us-4,554,418                               | 11-19-1985                     | TOY  |   |
|                    |                       | US-  |                                |  |   |

## FOREIGN PATENT DOCUMENTS

Examiner  
Signature

**Date Considered**

2/10/2003

\*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

<sup>1</sup> Applicant's unique citation designation number (optional). <sup>2</sup> See Kinds Codes of USPTO Patent Documents at [www.uspto.gov](http://www.uspto.gov) or MPEP 901.04. <sup>3</sup> Enter Office that issued the document, by the two-letter code (WIPO Standard ST.3). <sup>4</sup> For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. <sup>5</sup> Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST. 16 if possible. <sup>6</sup> Applicant is to place a check mark here if English language Translation is attached.

English language. Translation is attached.

**Burden Hour Statement:** This form is estimated to take 2.0 hours to complete. Time will vary depending upon the needs of the individual case. Any comments on the amount of time you are required to complete this form should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, Washington, DC 20231. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Assistant Commissioner for Patents, Washington, DC 20231.